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Dated: July 30, 2004

Signature: *Andrea Silverman*

(Andrea Silverman)

Docket No.: SUPP-P01-007
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Graef et al.

Application No.: 10/824939

Filed: April 15, 2004

For: METHODS AND COMPOSITIONS FOR
ENHANCING NEURON GROWTH AND
SURVIVAL

Confirmation No.: 7564

Art Unit: N/A

Examiner: Not Yet Assigned

July 30, 2004

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the U.S. Patent and Trademark Office ("USPTO") is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR § 1.97(b)(3)).

A copy of each reference listed on the attached PTO/SB/08 is enclosed, except for U.S. patents and patent applications, since the USPTO has waived this requirement for applications filed after June 2003.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent,


publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

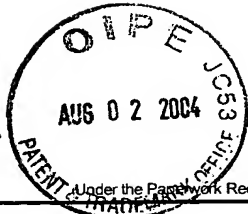
It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. SUPP-P01-007. A duplicate copy of this paper is enclosed.

Dated: July 30, 2004

Respectfully submitted,

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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/824939
				Filing Date	April 15, 2004
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				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	SUPP-P01-007

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA**	US-5,656,452	08/1997	Rao et al.	
	AB**	US-5,837,840	11/1998	Crabtree et al.	
	AC**	US-6,096,515	08/2000	Crabtree et al.	
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	AE1**	US-6,316,418	11/2001	Crabtree et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	BA	WO-93/04203A1	03/1993		
	BB	WO-94/15964A1	07/1994		
	BC	WO-95/02053A1	01/1995		
	BD	WO-95/08554A1	03/1995		
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	BI	WO-00/30671A2	06/2000		

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CA	Clipstone and Crabtree, 1993, "Calcineurin is a key signaling enzyme in T Lymphocyte activation and the target of the immunosuppressive drugs cyclosporin A and FK506," Ann. N.Y. Acad. Sci. 696:20-30		
	CB	Plunet et al., 2002, "Promoting Axonal Regeneration in the Central Nervous System by Enhancing the Cell Body Response to Axotomy," J. Neuro. Res. 68:1-6		
	CC	Goodnough et al., 2002, "Development of a delivery vehicle for intracellular transport of botulinum neurotoxin antagonists," FEBS Lett. 513:163-168		
	CD	Gao et al., 1999, "Genes regulating dendritic outgrowth, branching, and routing in <i>Drosophila</i> ," Genes & Dev. 13:2549-2561		
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	CF	Olave et al., 2002, "Identification of a polymorphic, neuron-specific chromatin remodeling complex," Genes & Dev. 16:2509-2517		
	CG	Neal and Clipstone, 2003, "A Constitutively Active NFATc1 Mutant Induces a Transformed Phenotype in 3T3-L1 Fibroblasts," J. Biol. Chem. 278(19):17246-17254		
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	CI	Plyte et al., 2001, "Identification and Characterization of a Novel Nuclear Factor of Activated T-cells-1 Isoform Expressed in Mouse Brain," J. Biol. Chem. 276(17):14350-14358		
	CJ	Leost et al., 2000, "Paullones are potent inhibitors of glycogen synthase-3 β and cyclin-dependent kinases 5/p25," Eur. J. Biochem. 267:5983-5994		
	CK	Smith and Skene, 1997, "A Transcription-Dependent Switch Controls Competence of Adult Neurons for Distinct Modes of Axon Growth," J. Neurosci. 17(2):646-658		
	CL	Graef et al., 2003, "Neurotrophins and Netrins Require Calcineurin/NFAT Signaling to		
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	CN	Boss et al., 1996, "Induction of NFAT-mediated Transcription by Gq-coupled Receptors in Lymphoid and Non-Lymphoid Cells," J. Biol. Chem. 271(18):10429-1-432	
	CO	Al-Daraji et al., 2002, "Localization of calcineurin/NFAT in human skin and psoriasis and inhibition of calcineurin/NFAT activation in human keratinocytes by cyclosporin A," J. Invest. Dermatol. 118(5):779-88	
	CP	Francis et al., 2004, "A survival motor neuron:tetanus toxin fragment C fusion protein for the targeted delivery of SMN protein to neurons," Brain Res. 995(1):84-96	
	CQ	Rosenblad et al., 2000, "Sequential administration of GDNF into the substantia nigra and striatum promotes dopamine neuron survival and axonal sprouting but not striatal reinnervation or functional recovery in the partial 6-OHDA lesion model," Exp. Neurol. 161(2):503-16	
	CR	Ye and Houle, 1997, "Treatment of the chronically injured spinal cord with neurotrophic factors can promote axonal regeneration from supraspinal neurons," Exp. Neurol. 143(1):70-81	
	CS	Bregman et al., 2002, "Transplants and neurotrophic factors increase regeneration and recovery of function after spinal cord injury," Prog. Brain Res. 137:257-73	
	CT	Stichel and Muller, 1998, "Experimental strategies to promote axonal regeneration after traumatic central nervous system injury," Prog. Neurobiol. 56(2):119-48	
	CU	Ebadi et al., 1997, "Neurotrophins and their receptors in nerve injury and repair," Neurochem. Int. 30(4-5):347-74	
	CV	Bulsara et al., 2002, "A new millenium for spinal cord regeneration: growth associated genes," Spine 27(17):1946-1949	
	CW	Markus and Snider, 2002, "Neurotrophic factors and axonal growth," Curr. Opin/ Neurobiol. 12(5):523-531	
	CX	Stoll and Muller, 1999, "Nerve injury, axonal degeneration and neural regeneration: basic insights," Brain Pathol. 9(2):313-325	
	CY	Yip and So, 2000, "Axonal regeneration of retinal ganglion cells: effect of trophic factors," Prog. Retin. Eye Res. 19(5):559-575	
	CZ	Himmelseher et al., 1997, "Effects of basic fibroblast growth factor on hippocampal neurons after axonal injury," J. Trauma 42(4):659-664	
	CA1	Monticelli and Rao, 2002, "NFAT1 and NFAT2 are positive regulators of IL-4 gene transcription," Eur. J. Immunol. 32(10):2971-2978	
	CB1	Khavari et al., 1993, "BRG1 contains a conserved domain of the SW12/SNF2 family necessary for normal mitotic growth and transcription," Nature 366(6451):170-174	
	CC1	Wang et al., 1996, "Purification and biochemical heterogeneity of the mammalian SWI-SNF complex," EMBO J. 15(19):5370-5382	
	CD1	Wang et al., 1996, "Diversity and specialization of mammalian SWI/SNF complexes," Genes Dev. 10(17):2117-2130	
	CE1	Tessier-Lavigne and Goodman, 1996, "The molecular biology of axon guidance," Science 294:1123-1133	
	CF1	Beals et al., 1997, "Nuclear localization of NF-ATc by a calcineurin-dependent, cyclosporin-sensitive intramolecular interaction," Genes Dev. 11:824-834	
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	CJ1	Crabtree and Olson, 2002, "NFAT signaling: choreographing the social lives of cells," Cell 109(Suppl.):S67-79	
	CK1	Flanagan et al., 1991, "Nuclear association of a T-cell transcription factor blocked by FK-506 and cyclosporin A," Nature 352:803-807	
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	CM1	Graef et al., 2001, "Signals transduced by Ca(2+)/calcineurin and NFATc3/c4 pattern the developing vasculature," Cell 105:863-875	
	CN1	Graef et al., 2001, "NFAT signaling in vertebrate development," Curr. Opin. Genet. Dev. 11:505-512	
	CO1	Graef et al., 1999, "L-type calcium channels and GSK-3 regulate the activity of NFATc4 in hippocampal neurons," Nature 401:703-708	
	CP1	Hodge et al., 1996, "Hyperproliferation and dysregulation of IL-4 expression in NF-ATp-deficient mice," Immunity 4:397-405	
	CQ1	Hong et al., 2000, "Calcium signalling in the guidance of nerve growth by netrin-1," Nature 403:93-98	
	CR1	Kaplan and Miller, 2002, "Neurotrophin signal transduction in the nervous system," Curr. Opin. Neurobiol. 10:381-391	
	CS1	Klee et al., 1979, "Calcineurin: a calcium- and calmodulin-binding protein of the nervous system," Proc. Natl. Acad. Sci. USA 76:6270-6273	
	CT1	Ming et al., 1997, "cAMP-dependent growth cone guidance by netrin-1," Neuron 19:1225-1235	
	CU1	Ming et al., 2002, "Adaptation in the chemotactic guidance of nerve growth cones," Nature 417:411-418	
	CV1	O'Connor and Tessier-Lavigne, 1999, "Identification of maxillary factor, a maxillary process-derived chemoattractant for developing trigeminal sensory axons," Neuron 24:165-178	
	CW1	Serafini et al., 1996, "Netrin-1 is required for commissural axon guidance in the developing vertebrate nervous system," Cell 87:1001-1014	
	CX1	Serafini et al., 1994, "The netrins define a family of axon outgrowth-promoting proteins homologous to C. elegans UNC-6," Cell 78:409-424	
	CY1	Shaw et al., 1988, "Identification of a putative regulator of early T cell activation genes," Science 241:202-205	
	CZ1	Stoichet et al., "Investigating a new entubulation strategy to overcome peripheral nerve injury," http://asme.pinetec.com/bio1999/data/pdfs/a0163445.pdf	
	CA2	Von Bernhardt and Bastiani, 1995, "Requirement of RNA synthesis for pathfinding by growing axons," J. Comp. Neurol. 357:52-64	
	CB2	Zheng et al., 2002, "Turning of nerve growth cones induced by localized increases in intracellular calcium ions," Nature 403:89-93	
	CC2	Zhu et al., 1998, "Intramolecular masking of nuclear import signal on NF-AT4 by casein kinase I and MEKK1," Cell 93:851-861	
	CD2	Oiwa et al., 2002, "Dopaminergic neuroprotection and regeneration by neurturin assessed by using behavioral, biochemical and histochemical measurements in a model of progressive Parkinson's disease," Brain Res. 947(2):271-283	
	CE2	Mata et al., 2002, "Targeted gene delivery to the nervous system using herpes simplex virus vectors," Physiol. Behav. 77(4-5):483-488	

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